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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,756	10/30/2003	Man-Pyo Hong	587-33	8762
75	90 12/04/2006		EXAM	INER
	ARRESE, ESQ.		GYORFI, T	HOMAS A
DILWORTH &	BARRESE, LLP			
333 Earle Ovington Blvd.			ART UNIT	PAPER NUMBER
Uniondale, NY 11553			2135	

DATE MAILED: 12/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
•	10/697,756	HONG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tom Gyorfi	2135	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence addres	;s
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	C DATE OF THIS COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this commu. BANDONED (35 U.S.C. § 133).	
Status	,		
1) Responsive to communication(s) filed on _	_		•
	This action is non-final.		
3) Since this application is in condition for allo		tters, prosecution as to the me	erits is
closed in accordance with the practice unde	·	·	
Disposition of Claims			
4) Claim(s) 1-3 is/are pending in the application	on.		
4a) Of the above claim(s) is/are without	drawn from consideration.		
5) Claim(s) is/are allowed.	•		
6)⊠ Claim(s) <u>1-3</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on is/are: a) = a	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the cor	rection is required if the drawing	g(s) is objected to. See 37 CFR 1	121(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-1	52.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority docum	ents have been received.		
2. Certified copies of the priority docum	ents have been received in a	Application No	
3. Copies of the certified copies of the p	priority documents have been	n received in this National Sta	ge
application from the International Bur	eau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a	list of the certified copies no	t received.	
Attachment(s)			
1) 🔯 Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)	
2) 🔲 Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date Informal Patent Application	
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/30/03.	6) Other:	• •	

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DETAILED ACTION

1. Claims 1-3 are pending examination.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 10/30/03 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by "Intrusion Detection Using Static Analysis" (hereinafter, "Wagner").

Regarding claim 1:

Wagner discloses a method for detecting malicious scripts using a static analysis, comprising the step of: checking whether a series of methods constructing a malicious code pattern exist and whether parameters and return values associated between the methods match each other (page 158, 1st paragraph); wherein the checking step comprises the steps of: classifying, by modeling a malicious behavior in

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such a manner that it includes a combination of unit behaviors each of which is composed of sub-unit behaviors or one or more method calls, each unit behavior and method call sentence into a matching rule for defining sentence types to be detected in script codes and a relation rule for defining a relation between patterns matched so that the malicious behavior can be searched by rule variables used in the sentences satisfying the matching rule (section 4.3, "The abstract stack model", and particularly pages 160-161, "The context-free model"); generating instances of the matching rule by searching for code patterns matched with the matching rule from a relevant script code to be detected, extracting parameters of functions used in the searched code patterns, and storing the extracted parameters in the rule variables [i.e., actually implementing the classification step above] (Ibid, and also page 164, "6. Evaluation", 1st paragraph); and generating instances of the relation rule by searching for instances satisfying the relation rule from a set of the generated instances of the matching rule (Ibid).

Regarding claim 2:

Wagner discloses all the limitations of claim 1 above. Wagner further discloses wherein the matching rule is composed of rule identifiers and sentence patterns constructing malicious behavior and having the same grammar as a language of the scripts to be detected (Figure 2), and wherein the relation rule comprises conditional expressions in which conditions satisfying the relevant rule are described, and action expressions in which contents to be executed are described when the conditions in the conditional expressions are satisfied (Figure 2).

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Regarding claim 3:

Wagner discloses all the limitations of claim 2 above. Wagner further discloses wherein the relation rule includes preconditions that should be satisfied prior to the conditions in the conditional expressions are described (page 162, "Principle 1" and subsequent paragraphs), and the action expressions describe contents that will be executed when both the conditional expressions and preconditions are satisfied (Fig. 2).

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Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: U.S. Patents 7,093,239; 7,089,591; 7,069,589; 7,051,368; 7,013,483; 6,813,712; 5,983,348; 5,390,232; and U.S. Patent Application Publications 2004/0073811 and 2003/0233574.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom Gyorfi whose telephone number is (571) 272-3849. The examiner can normally be reached on 8:30am 5:00pm Monday Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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TAG 11/28/06

KIM VU

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100